

# Proposed Adhesion Models Based on the X-ray Studies of N- and E-Cadherins

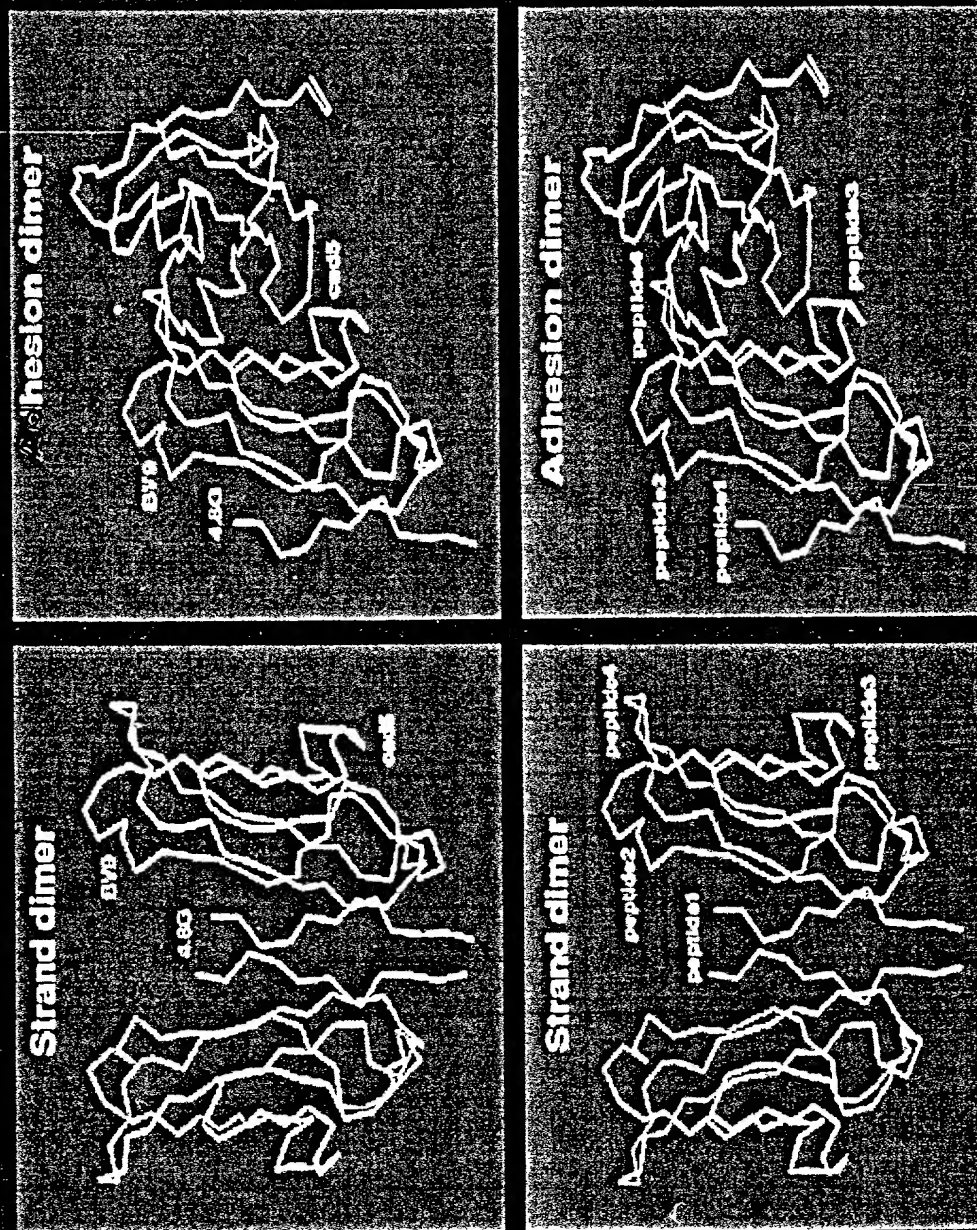
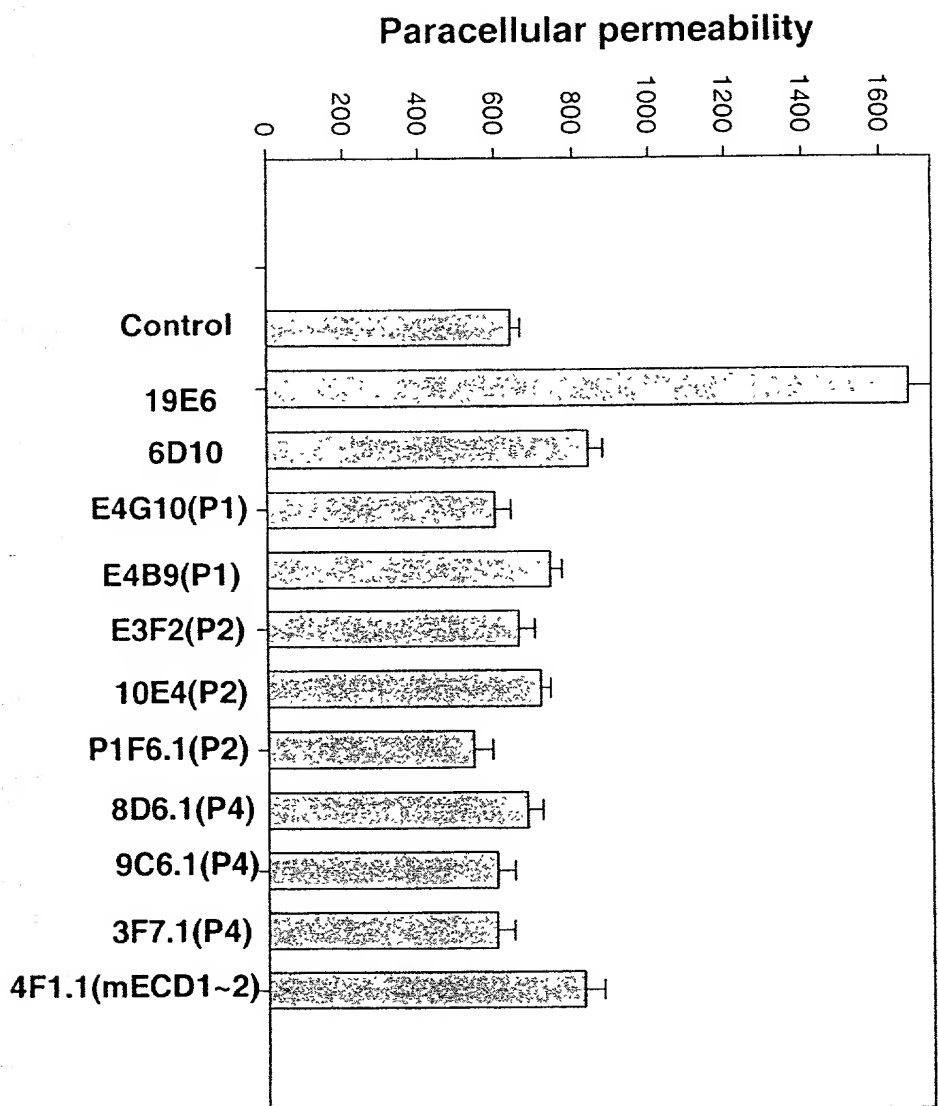


FIG. 1

# Sequence Alignment of ECD1 of Four Classic Cadherins

DWVI	PPIN	LPEN	SRGP	FPQEL	VRIS	DRDK	NLSL	RYSV	TGPG	ADQP	PTGI	FIIN	mNC
DWVI	PPIS	CPEN	EKGE	FFPK	NLVQ	IKSN	RDKET	KVFY	SITG	QGAD	KPPV	GVFI	mEC
4 . 8G													
BV9													
Cad5													
DWI	WNQ	MHI	DEE	KNTS	LPHH	VGKI	KSSV	SRK-	NAKY	LLK	GEYV	GK--	hVEC
DWI	WNQ	MHI	DEE	KNES	LPHY	V-	KDQS	NVNR	Q-	NAKY	VLQ	GEFAG	mVEC
<u>Peptide 1</u>													
<u>Peptide 2</u>													
<u>Peptide 3</u>													
IS	COL	SVT	KPL	DREL	IAR	FHL	RAH	AV	DIN-	GNQ	VEN	PID	mNC
ET	GW	LKV	TQ	PLD	REA	I	AKY	ILY	SHAV	SSN-	GEA	VED	mEC
ET	GD	VFA	I	ER	LD	RE	NI	SEY	HLT	AVI	VDK	DT	hVEC
NT	GN	VLA	YER	LD	RE	KV	SEY	FL	TAL	I	VDK	NT	mVEC
<u>Peptide 4</u>													

# Effects of the anti-ECD1 Peptides Antibodies on Paracellular Permeability of H5V cells



1004012919.13902

The Effects of Three Anti-murine VE-cadherin mAb on  
Vascular Permeability in Mice

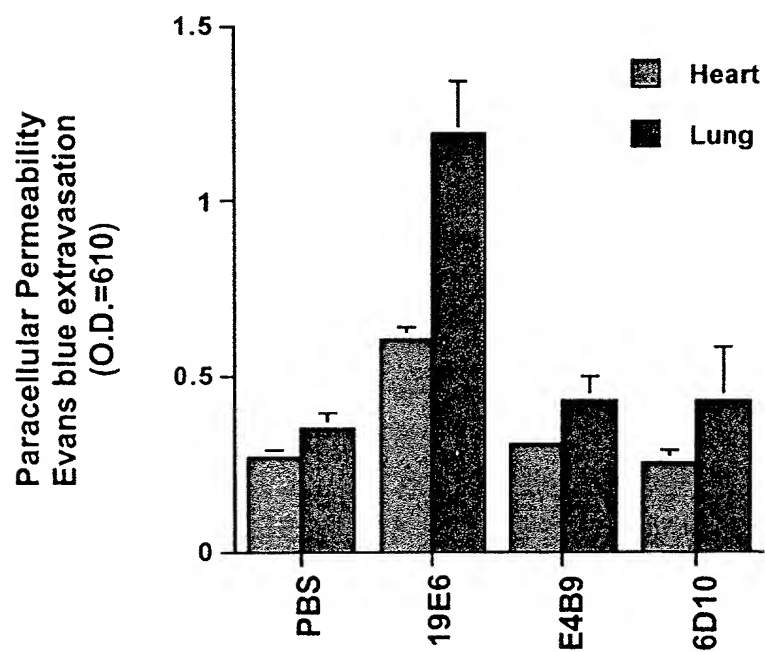


Fig 4



**Effect of anti-VE-cadherin mAb 19E6 on  
b-FGF-induced neovascularization in  
mouse corneal micropocket assay**



**Rat IgG1**



**19E6**

Quantification of the Effects of Three Anti-murine VE-cadherin mAb on Inhibiting Angiogenesis *in vivo* (mouse Corneal micropacket assay)

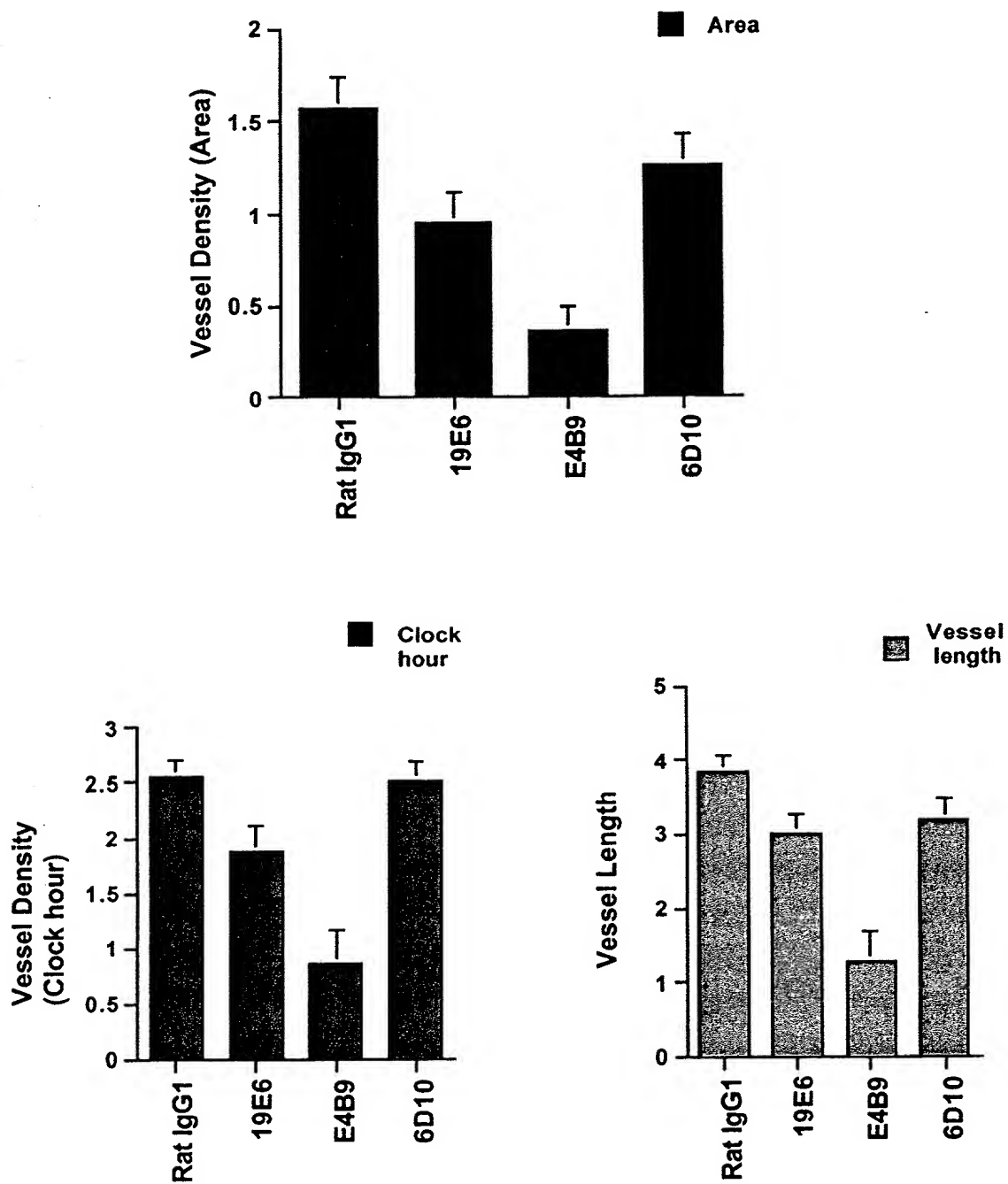
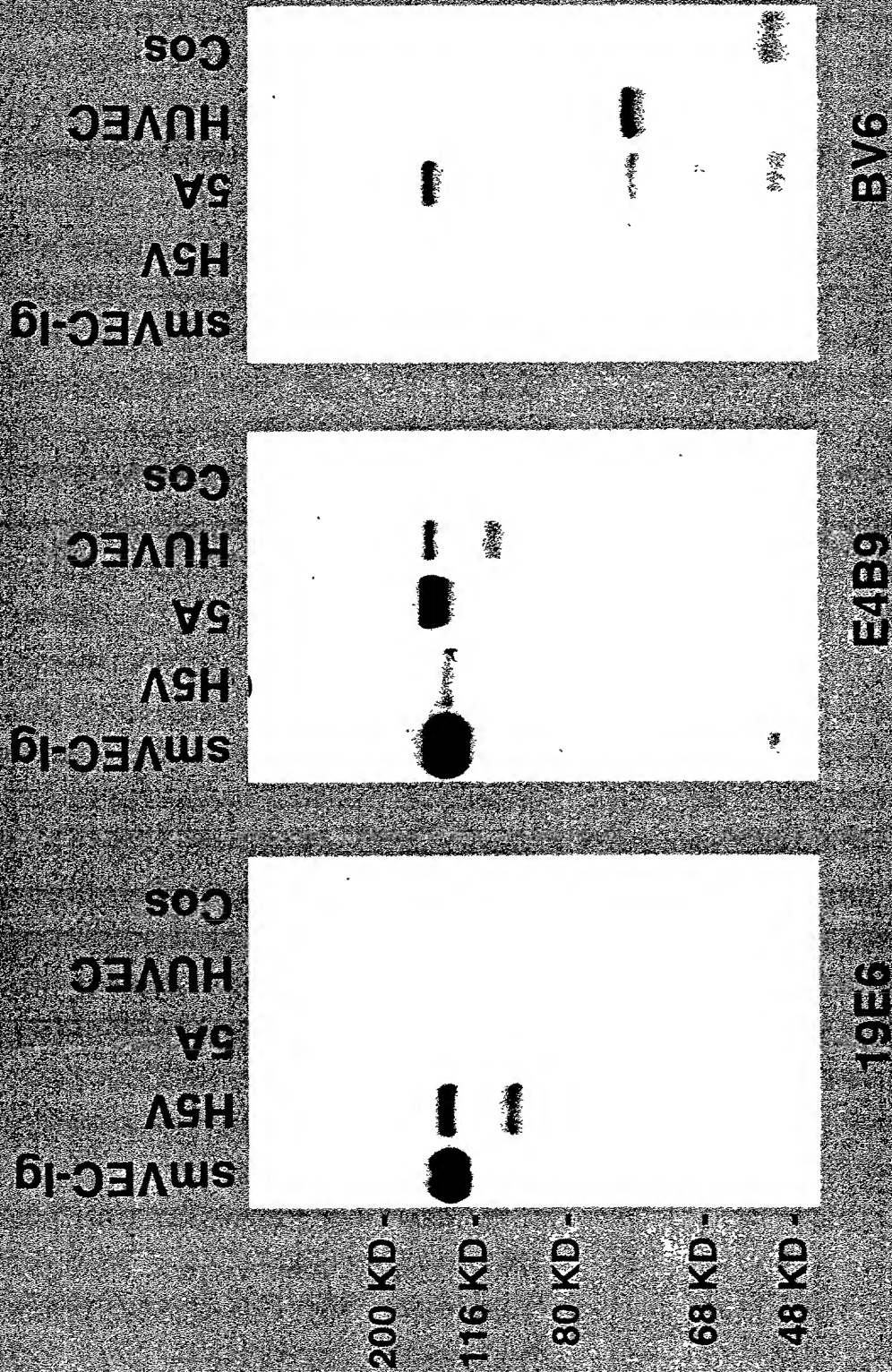


Fig. 5B

# Anti-murine VE-cadherin mAb E4B9 cross-reacts with human VE-cadherin



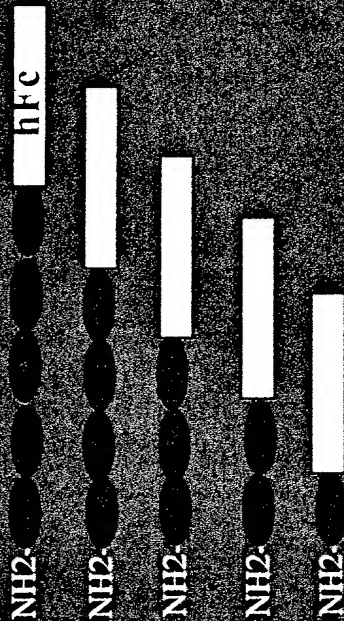
12 % Reducing SDS-PAGE

FIG. 6

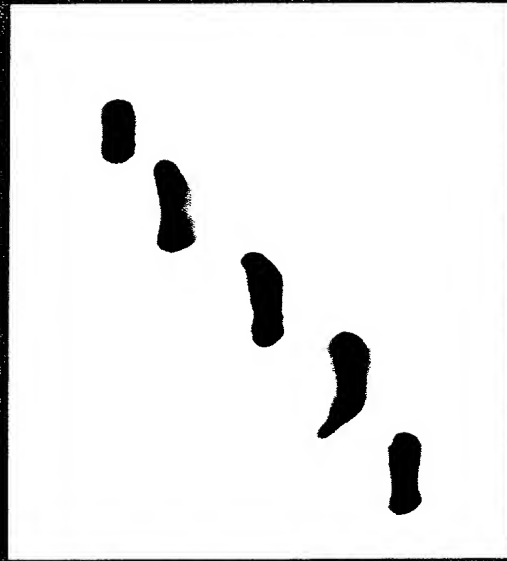


# Epitope Mapping for mAb19E6 and 6D10 to Specific VEC Domains

## Serially truncated smVEC-Ig



## 10% Reducing SDS-PAGE



## ELISA Design

HRP-goat anti-rat IgG



Anti-VE-cadherin mAb



Soluble truncated VEC-Ig



Goat anti-human IgG

mAb	Reactivity		
	19E6	6D10	DC101
hIgG	-	-	-
smD1-Ig	+	-	-
smD1~2-Ig	+	-	-
smD1~3-Ig	+	+/-	-
smD1~4-Ig	+	+	-
smD1~5-Ig	+	+	-

FIG 7



# Anti-murine VE-cadherin antibodies

19E6					
E4B9					
	1	2	3	4	5
	10G4	13E6	15F12		2B11
	2G7*	8A7	1A3*		
		5H6			
		3C3*			

## Epitope Mapping

DWIWNQMHI DEEKNESLPHYVKDQSNVNRQNAKYVLQGEFAGKIFGVDAN  
E4B9 19E6, 10G4 (Cad5)

TGNVLAYERLDREKVSEYFLTALIVDKNTNKNLEQPSSTVKVHDINDNWPVF

Murine ECD1